1 GGCGTAATCT GCTGCTTGCA AACAAAAAA CCACCGCTAC CAGCGGTGGT 51 TTGTTTGCCG GATCAAGAGC TACCAACTCT TTTTCCGAAG GAACTGGCTT 101 CAGCAGAGCG CAGATACCAA ATACTGTCCT TCTAGTGTAG CCGTAGTTAG 151 GCCACCACTT CAAGAACTCT GTAGCACCGC CTACATACCT CGCTCTGCTA 201 ATCCTGTTAC CAGTGGCTGC TGCCAGTGGC GATAAGTCGT GTCTTACCGG 251 GTTGGACTCA AGACGATAGT TACCGGATAA GGCGCAGCGG TCGGGCTGAA 301 CGGGGGTTC GTGCACACAG CCCAGCTTGG AGCGAACGAC CTACACCGAA 351 CTGAGATACC TACAGCGTGA GCTATGAGAA AGCGCCACGC TTCCCGAAGG 401 GAGAAAGGCG GACAGGTATC CGGTAAGCGG CAGGGTCGGA ACAGGAGAGC 451 GCACGAGGGA GCTTCCAGGG GGAAACGCCT GGTATCTTTA TAGTCCTGTC 501 GGGTTTCGCC ACCTCTGACT TGAGCGTCGA TTTTTGTGAT GCTCGTCAGG 551 GGGGCGGAGC CTATGGAAAA ACGCCAGCAA CGCCGAATTA CCGCGGTCTT 601 TCTCAACGTA ACACTTTACA GCGGCGCGTC ATTTGATATG ATGCGCCCCG 651 CTTCCCGATA AGGGAGCAGG CCAGTAAAAG CATTACCCGT GGTGGGGTTC 701 CCGAGCGGCC AAAGGGAGCA GACTCTAAAT CTGCCGTCAT CGACTTCGAA 751 GGTTCGAATC CTTCCCCCAC CACCATCACT TTCAAAAGTC CGAAAGAATC 801 TGCTCCCTGC TTGTGTGTTG GAGGTCGCTG AGTAGTGCGC GAGTAAAATT 851 TAAGCTACAA CAAGGCAAGG CTTGACCGAC AATTGCATGA AGAATCTGCT 901 TAGGGTTAGG CGTTTTGCGC TGCTTCGCGA TGTACGGGCC AGATATACGC 951 GTTGACATTG ATTATTGACT AGTTATTAAT AGTAATCAAT TACGGGGTCA 1001 TTAGTTCATA GCCCATATAT GGAGTTCCGC GTTACATAAC TTACGGTAAA 1051 TGGCCCGCCT GGCTGACCGC CCAACGACCC CCGCCCATTG ACGTCAATAA 1101 TGACGTATGT TCCCATAGTA ACGCCAATAG GGACTTTCCA TTGACGTCAA 1151 TGGGTGGACT ATTTACGGTA AACTGCCCAC TTGGCAGTAC ATCAAGTGTA 1201 TCATATGCCA AGTACGCCCC CTATTGACGT CAATGACGGT AAATGGCCCG 1251 CCTGGCATTA TGCCCAGTAC ATGACCTTAT GGGACTTTCC TACTTGGCAG 1301 TACATCTACG TATTAGTCAT CGCTATTACC ATGGTGATGC GGTTTTGGCA 1351 GTACATCAAT GGGCGTGGAT AGCGGTTTGA CTCACGGGGA TTTCCAAGTC 1401 TCCACCCCAT TGACGTCAAT GGGAGTTTGT TTTGGCACCA AAATCAACGG 1451 GACTTTCCAA AATGTCGTAA CAACTCCGCC CCATTGACGC AAATGGGCGG 1501 AATTCCTGGG CGGGACTGGG GAGTGGCGAG CCCTCAGATG CTGCATATAA 1551 GCAGCTGCTT TTTGCCTGTA CTGGGTCTCT CTGGTTAGAC CAGATCTGAG 1601 CCTGGGAGCT CTCTGGCTAA CTAGAGAACC CACTGCTTAA GCCTCAATAA 1651 AGCTTCTAGA GATCCCTCGA CCTCGAGGGA TCTTCCATAC CTACCAGTTC

FIG. 1-1

```
TGCGCCTGCA GGTCGCGGCC GCGACTCTAG AGGATCTTTG TGAAGGAACC
 1701
 1751 TTACTTCTGT GGTGTGACAT AATTGGACAA ACTACCTACA GAGATTTAAA
 1801 GCTCTAAGGT AAATATAAAA TTTTTAAGTG TATAATGTGT TAAACTACTG
 1851 ATTCTAATTG TTTGTGTATT TTAGATTCCA ACCTATGGAA CTGATGAATG
 1901 GGAGCAGTGG TGGAATGCCT TTAATGAGGA AAACCTGTTT TGCTCAGAAG
 1951 AAATGCCATC TAGTGATGAT GAGGCTACTG CTGACTCTCA ACATTCTACT
 2001 CCTCCAAAAA AGAAGAGAAA GGTAGAAGAC CCCAAGGACT TTCCTTCAGA
2051 ATTGCTAAGT TTTTTGAGTC ATGCTGTGTT TAGTAATAGA ACTCTTGCTT
2101 GCTTTGCTAT TTACACCACA AAGGAAAAAG CTGCACTGCT ATACAAGAAA
      ATTATGGAAA AATATTCTGT AACCTTTATA AGTAGGCATA ACAGTTATAA
2151
      TCATAACATA CTGTTTTTC TTACTCCACA CAGGCATAGA GTGTCTGCTA
2201
      TTAATAACTA TGCTCAAAAA TTGTGTACCT TTAGCTTTTT AATTTGTAAA
2251
     GGGGTTAATA AGGAATATTT GATGTATAGT GCCTTGACTA GAGATCATAA
2301
2351 TCAGCCATAC CACATTTGTA GAGGTTTTAC TTGCTTTAAA AAACCTCCCA
2401 CACCTCCCCC TGAACCTGAA ACATAAAATG AATGCAATTG TTGTTGTTAA
2451 CTTGTTTATT GCAGCTTATA ATGGTTACAA ATAAAGCAAT AGCATCACAA
      ATTICACAAA TAAAGCATIT TTTTCACTGC ATTCTAGTTG TGGTTTGTCC
2501
2551 AAACTCATCA ATGTATCTTA TCATGTCTGG ATCCTGTGGA ATGTGTGTCA
      GTTAGGGTGT GGAAAGTCCC CAGGCTCCCC AGCAGGCAGA AGTATGCAAA
2601
      GCATGCATCT CAATFAGTCA GCAACCAGGT GTGGAAAGTC CCCAGGCTCC
2651
2701 CCAGCAGGCA GAAGTATGCA AAGCATGCAT CTCAATTAGT CAGCAACCAT
2751 AGTCCCGCCC CTAACTCCGC CCATCCCGCC CCTAACTCCG CCCAGTTCCG
2801 CCCATTCTCC GCCCCATGGC TGACTAATTT TTTTTATTTA TGCAGAGGCC
     GAGGCCGCCT CGGCCTCTGA GCTATTCCAG AAGTAGTGAG GAGGCTTTTT
2851
2901 TGGAGGCCTA GGCTTTTGCA AAAAGCTAAT TC
```

FIG. 1-2

	CCTAAGATGÄGCTTTCCATĠTAAATTTGTÄGCCAGCTTCĊTTCTGATTTŤCAATGTTTCŤ METSERPÆPROCYSLYSPÆVALÄLASERPÆLEULEUILEPÆASNVALSER	(60)
	TCCAAAGGTĠCAGTCTCCAÀAGAGATTACĠAATGCCTTGĠAAACCTGGGĠTGCCTTGGGŤ SERLYSGLYALAVALSERLYSGLUĪLETHRASNALALEUGLUTHRTRPGLYALALEUGLY	(120)
20	CAGGACATCÁACTTGGACATTCCTAGTTTTCAAATGAGTGATGATATTGÁCGATATAAAÁ GLNASPILEASNLEUASPILEPROSERPHEGLNMETSERASPASPILEASPASPILELYS	(180)
40	TGGGAAAAAÁCŤTCAGACAÁGAAAAAGATŤGCACAATTCÁGAAAAGAGAÁAGAGACTTTĆ TRPGLULYSTHRSERÁSPLYSLYSLYSILEÁLAGLNPHEARGLYSGLULYSGLUTHRPHE	(240)
60	AAGGAAAAAĠATACATATAAGCTATTTAAAAATGGAACTĊTGAAAATTAAGCATCTGAAĠ LysglulysaspThrTyrlysLeuPhelysas,nglyThrLeulysIlelysHisLeulys	(300)
80	ACCGATGATČAGGATATCTÁCAAGGTATCÁATATATGATÁCAAAAGGAAÁAAATGTGTTĞ THRASPASPGLNASPILETYRLYSVALSERILETYRASPTHRLYSGLYLYSASNVALLEU	(360)
100	GAAAAAATATTTGATTTGAAGATTCAAGAGAGGGTCTCAAAAACCAAAGATCTCCTGGACT GLULYSILEPHEASPLEULYSILEGLNGLUARGVALSERLYSPROLYSILESERTRPTHR	(420)
120	TGTATCAACACAACCCTGACCTGTGAGGTAATGAATGGAACTGACCCCGAATTAAACCTG CysIleasnThrThrleuthrCysGluValWetasnGlyThraspProgluLeuasnLeu	(480)
140	CHO TATCAAGATGGGAAACATCTAAAACTTTCTCAGAGGGTCATCACACACA	(540)
160	AGCCTGAGTĠCAAAATTCAÀGTGCACAGCÀGGGAACAAAĠTCAGCAAGGÀATCCAGTGTĊ SERLEUSERALALYSPHELYSCYSTHRALAGLYASNLYSVALSERLYSGLUSERSERVAL	(600)
180	GAGCCTGTCÁGCTGTCCAGÁGAAAGGTCTÁGACATCTATĆTCATCATTGĠCATATGTGGÁ GLuProValSerCysProGluLysGlyLeuAspIleTyrLeuIleIleGlyIleCysGly	(660)
200	GGAGGCAGCCTCTTGATGGTCTTTGTGGCACTGCTCGTTTTCTATATCACCAAAAGGAAA GLYGLYSERLEULEUMETVALPHEVALALALEULEUVALPHETYRILETHRLYSARGLYS	(720)
220	AAACAGAGGAGTCGGAGAAATGATGAGGAGCTGGAGACAAGAGCCCACAGAGTAGCTACT LysGlnargSerargasnaspGluGluLeuGluThrargalaHisargValalaThr	(780)
240	GAAGAAAGGĠGCCGGAAGCĊCCAACAAATTCCAGCTTCAACCCCTCAGAATCCAGCAACT GLUGLUARGGLYARGLYSPROGLNGLNILEPROALASERTHRPROGLNASNPROALATHR	(840)
260	TCCCAACATCCTCCACCACCTGGTCATCGTTCCCAGGCACCTAGTCATCGTCCCCCG SERGLNHISPROPROPROPROGLYHISARGSERGLNALAPROSERHISARGPROPRO	(900)
280	CCTCCTGGAĊACCGTGTTCAGCACCAGCCTCAGAAGAGGCCTCCTGCTCCGTCGGGCACA PROPROGLYHISARGVALGLNHISGLNPROGLNLYSARGPROPROALAPROSERGLYTHR	(960)

FIG. 2-1

300	CAAGTTCACCAGCAGAAAGGCCCGCCCCTCCCCAGACCTCGAGTTCAGCCAAAACCTCCCGCNVALHISGLNGLNLYSGLYPROPROLEUPROARGPROARGVALGLNPROLYSPROPRO	(1020)
320	CATGGGGCAĠCAGAAAACTĊATTGTCCCCŤTCCTCTAATŤAAAAAAGATÅGAAACTGTCŤ HISGLYALAALAGLUASNSERLEUSERPROSERSERASNEND	(1080)
	TTTTCAATAÁAAAGCACTGŤGGATTTCTGĆCCTCCTGATĠTGCATATCCĠTACTTCCATĠ	(1140)
	AGGTGTTTTĊTGTGTGCAGÁACATTGTCAĊCTCCTGAGGĊTGTGGGCCAĊAGCCACCTCŤ	(1200)
	GCATCTTCGÁACTCAGCCAŤGTGGTCAACÁTCTGGAGTTŤTTGGTCTCCŤCAGAGAGCTĊ	(1260)
	CATCACACCÁGTAAGGAGAÁGCAATATAAĠTGTGATTGCÁAGAATGGTAĠAGGACCGAGĊ	(1320)
	ACAGAAATCİTAGAGATTTCTTGTCCCCTCTCAGGTCATGTGTAGATGCGATAAATCAAG	(1380)
	TGATTGGTGTGCCTGGGTCTCACTACAAGĆAGCCTATCTGCTTAAGAGAĊTCTGGAGTTT	(1440)
	CTTATGTGCĆCTGGTGGACÁCTTGCCCACĊATCCTGTGAĠTAAAAGTGAÁATAAAAGCTŤ	(1500)
	TGAC (1504)	

FIG. 2-2

TGGGAGCGACGCGGGCCGGGCCCTGGGGGTCCTCAGCGTGGTCTGCCTGC	•
C 90	
CATO	
TTT JyPh	
rTGC heG1	
GCT ysPl	
ACT	
CTGC LeuH	
CTG(Leul	
TGC Cys	
SCTC IVal	
CGT(
CAG(uSe	
CCT	
SGGT 1yVa	
TGG(enG	
CCC.	
.ccc \rgA	
3.1 y /	
CCC Ala(
GAC(Asp	
AGC	
1000 101y	
ATGGTTGCTGGGAGC WetValAlaGlySer	
GGT tVa	
CAT	
GCCCGACGAGCCATGGTTGCTGGGAGCGAC	
, ACG	
ງງງ	
\mathcal{G}	

91 AGCTGTITTICCCAACAAATATATGGTGTTGTGTATGGGAATGTAACTTICCATGTACCAAGCAATGTGCCTTTAAAAGAGGTCCTATGG 180 27 SerCysPheSerGinGinIleTyrGiyVaiVaiTyrGiyAsnVaiThrPheHisVaiProSerAsnVaiProLeuLysGiuVaiLeuTrp 56 ---CHD---

57 LyslysGInLysAsplysValAlaGluLeuGluAsnSerGluPheArgAlaPheSerSerPheLysAsnArgValTyrLeuAspThrVal 86

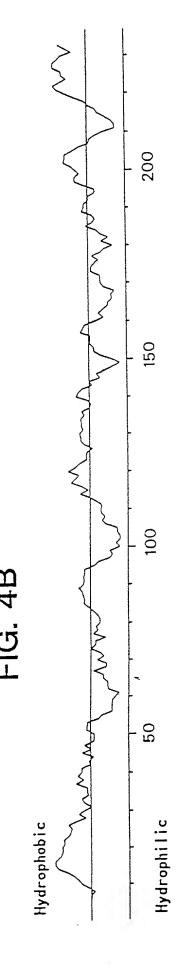
271 TCAGGTAGCCTCACTATCTACAACTTAACATCATCAGATGAAGATGAAATGGAATCGCCAAATATTACTGATACCATGAAGTTC 360 SerGlySerLeuThrIleTyrAsnLeuThrSerSerAspGluAspGluTyrGluMetGluSerProAsnIleThrAspThrMetLysPhe 116

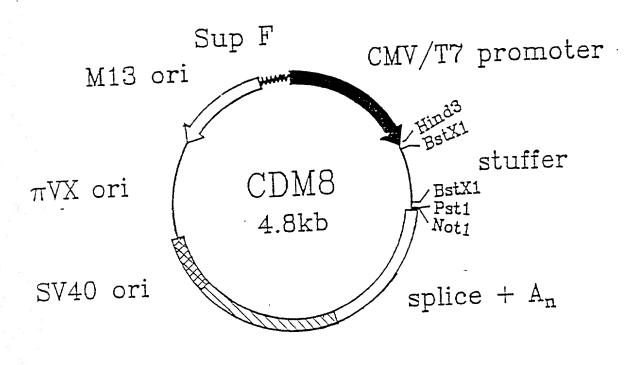
541 ATGGAAAATGATCTTCCACAAAAAATACAGTGTACTCTTAGCAATCCATTATTTAATACAACATCATCATCATTTTGACAACCTGTATC 630 177 MetGluAsnAspLeuProGlnLysIleGlnCysThrLeuSerAsnProLeuPheAsnThrThrSerSerIleIleLeuThrThrCysIle

631 CCAAGCAGCGGTCATTCAAGACACAGATATGCACTTATACCCATACCATTAGCAGTAATTACAACATGTATTGTGCTGTATATGAATGTT 720 207 ProSerSerGlyHisSerArgHisArgTyrAlaLeuIleProIleProLeuAlaValIleThrThrCysIleValLeuTyrMetAsnVal

FIG. 4A

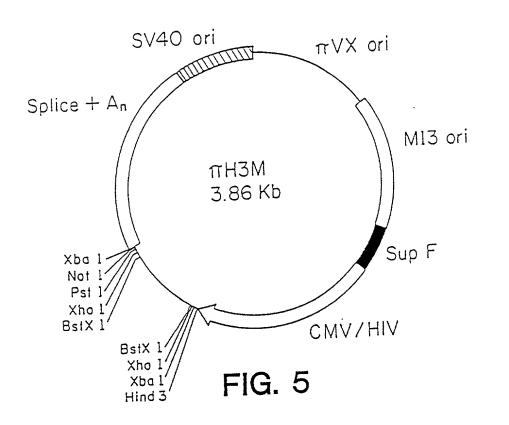
811 AAGATGAAGACAACAGCATAACTAAATTATTTTAAAAACTAAAAAGCCATCTGATTTCTCATTT 874





Py ori

FIG. 3



1 GGCGTAATCT GCTGCTTGCA AACAAAAAA CCACCGCTAC CAGCGGTGGT TTGTTTGCCG GATCAAGAGC TACCAACTCT TTTTCCGAAG GTAACTGGCT TCAGCAGAGC GCAGATACCA AATACTGTCC TTCTAGTGTA GCCGTAGTTA GGCCACCACT TCAAGAACTC TGTAGCACCG CCTACATACC TCGCTCTGCT 151 AATCCTGTTA CCAGTGGCTG CTGCCAGTGG CGATAAGTCG TGTCTTACCG 201 251 GGTTGGACTC AAGACGATAG TTACCGGATA AGGCGCAGCG GTCGGGCTGA ACGGGGGGTT CGTGCACACA GCCCAGCTTG GAGCGAACGA CCTACACCGA ACTGAGATAC CTACAGCGTG 'AGCATTGAGA AAGCGCCACG CTTCCCGAAG GGAGAAAGGC GGACAGGTAT CCGGTAAGCG GCAGGGTCGG AACAGGAGAG 451 CGCACGAGGG AGCTTCCAGG GGGAAACGCC TGGTATCTTT ATAGTCCTGT CGGGTTTCGC CACCTCTGAC TTGAGCGTCG ATTTTTGTGA TGCTCGTCAG 501 GGGGGGGGAG CCTATGGAAA AACGCCAGCA ACGCAAGCTA GCTTCTAGCT AGAAATTGTA AACGTTAATA TTTTGTTAAA ATTCGCGTTA AATTTTTGTT AAATCAGCTC ATTTTTTAAC CAATAGGCCG AAATCGGCAA AATCCCTTAT AAATCAAAAG AATAGCCCGA GATAGGGTTG AGTGTTGTTC CAGTTTGGAA CAAGAGTCCA CTATTAAAGA ACGTGGACTC CAACGTCAAA GGGCGAAAAA CCGTCTATCA GGGCGATGGC CGCCCACTAC GTGAACCATC ACCCAAATCA AGTTTTTTGG GGTCGAGGTG CCGTAAAGCA CTAAATCGGA ACCCTAAAGG 851 GAGCCCCCGA TTTAGAGCTT GACGGGGAAA GCCGGCGAAC GTGGCGAGAA AGGAAGGGAA GAAAGCGAAA GGAGCGGCG CTAGGGCGCT GGCAAGTGTA 1001 GCGGTCACGC TGCGCGTAAC CACCACACCC GCCGCGCTTA ATGCGCCGCT 1051 ACAGGCGCG TACTATGGTT GCTTTGACGA GCACGTATAA CGTGCTTTCC

FIG. 6-1

TCGTTGGAAT CAGAGCGGGA GCTAAACAGG AGGCCGATTA AAGGGATTTT AGACAGGAAC GGTACGCCAG CTGGATCACC GCGGTCTTTC TCAACGTAAC ACTITACAGE GGEGGGTCAT TTGATATGAT GEGCECCGET TEECGATAAG 1201 GGAGCAGGCC AGTAAAAGCA TTACCCGTGG TGGGGTTCCC GAGCGGCCAA 1301 AGGGAGCAGA CTCTAAATCT GCCGTCATCG ACTTCGAAGG TTCGAATCCT 1351 TCCCCCACCA CCATCACTTT CAAAAGTCCG AAAGAATCTG CTCCCTGCTT GTGTGTTGGA GGTCGCTGAG TAGTGCGCGA GTAAAATTTA AGCTACAACA AGGCAAGGCT TGACCGACAA TTGCATGAAG AATCTGCTTA GGGTTAGGCG TTTTGCGCTG CTTCGCGATG TACGGGCCAG ATATACGCGT TGACATTGAT TATTGACTAG TTATTAATAG TAATCAATTA CGGGGTCATT AGTTCATAGC CCATATATGG AGTTCCGCGT TACATAACTT ACGGTAAATG GCCCGCCTGG CTGACCGCCC AACGACCCCC GCCCATTGAC GTCAATAATG ACGTATGTTC CCATAGTAAC GCCAATAGGG ACTITCCATT GACGTCAATG GGTGGACTAT TTACGGTAAA CTGCCCACTT GGCAGTACAT CAAGTGTATC ATATGCCAAG 1751 TACGCCCCCT ATTGACGTCA ATGACGGTAA ATGGCCCGCC TGGCATTATG CCCAGTACAT GACCTTATGG GACTTTCCTA CTTGGCAGTA CATCTACGTA TTAGTCATCG CTATTACCAT GGTGATGCGG TTTTGGCAGT ACATCAATGG 1901 1951 GCGTGGATAG CGGTTTGACT CACGGGGGATT TCCAAGTCTC CACCCCATTG 2001 ACGTCAATGG GAGTTTGTTT TGGCACCAAA ATCAACGGGA CTTTCCAAAA 2051 TGTCGTAACA ACTCCGCCCC ATTGACGCAA ATGGGCGGAA TTCCTGGGCG 2101 GGACTGGGGA GTGGCGAGCC CTCAGATGCT GCATATAAGC AGCTGCTTTT TGCCTGTACT GGGTCTCTCT GGTTAGACCA GATCTGAGCC TGGGAGCTCT 2151 CTGGCTAACT AGAGAACCCA CTGCTTAAGC CTCAATAAAG CTTCTAGAGA 2201 TCCCTCGACC TCGAGATCCA TTGTGCTGGC GCGGATTCTT TATCACTGAT

FIG. 6-2

AAGTTGGTGG ACATATTATG TTTATCAGTG ATAAAGTGTC AAGCATGACA AAGTTGCAGC CGAATACAGT GATCCGTGCC GCCCTAGACC TGTTGAACGA 2351 GGTCGGCGTA GACGGTCTGA CGACACGCAA ACTGGCGGAA CGGTTGGGGG 2401 TTCAGCAGCC GGCGCTTTAC TGGCACTTCA GGAACAAGCG GGCGCTGCTC 2451 GACGCACTGG CCGAAGCCAT GCTGGCGGAG AATCATAGCA CTTCGGTGCC 2501 GAGAGCCGAC GACGACTGGC GCTCATTTCT GACTGGGAAT GCCCGCAGCT 2551 TCAGGCAGGC GCTGCTCGCC TACCGCCAGC ACAATGGATC TCGAGGGATC 2601 TTCCATACCT ACCAGTTCTG CGCCTGCAGG TCGCGGCCGC GACTCTAGAG 2651 GATCTTTGTG AAGGAACCTT ACTTCTGTGG TGTGACATAA TTGGACAAAC 2701 TACCTACAGA GATTTAAAGC TCTAAGGTAA ATATAAAATT TTTAAGTGTA 2751 TAATGTGTTA AACTACTGAT TCTAATTGTT TGTGTATTTT AGATTCCAAC 2801 CTATGGAACT-GATGAATGGG AGCAGTGGTG GAATGCCTTT AATGAGGAAA 2851 ACCTGTTTTG CTCAGAAGAA ATGCCATCTA GTGATGATGA GGCTACTGCT 2901 GACTCTCAAC ATTCTACTCC TCCAAAAAAG AAGAGAAAGG TAGAAGACCC 2951 3001 CAAGGACTIT CCTTCAGAAT TGCTAAGTTT TITGAGTCAT GCTGTGTTTA 3051 GTAATAGAAC TCTTGCTTGC TTTGCTATTT ACACCACAAA GGAAAAAGCT GCACTGCTAT ACAAGAAAAT TATGGAAAAA TATTCTGTAA CCTTTATAAG TAGGCATAAC AGTTATAATC ATAACATACT GTTTTTTCTT ACTCCACACA 3151 GGCATAGAGT GTCTGCTATT AATAACTATG CTCAAAAATT GTGTACCTTT 3201 AGCTTTTTAA TITGTAAAGG GGTTAATAAG GAATATTTGA TGTATAGTGC 3251 CTTGACTAGA GATCATAATC AGCCATACCA CATTTGTAGA GGTTTTACTT 3301 GCTTTAAAAA ACCTCCCACA CCTCCCCCTG AACCTGAAAC ATAAAATGAA 3351 TGCAATTGTT GTTGTTAACT TGTTTATTGC AGCTTATAAT GGTTACAAAT 3401 3451 AAAGCAATAG CATCACAAAT TTCACAAATA AAGCATTTTT TTCACTGCAT

FIG. 6-3

3501	TCTAGTTGTG	GTTTGTCCAA	ACTCATCAAT	GTATCTTATC	ATGTCTGGAT
3551	CCTGTGGAAT	GTGTGTCAGT	TAGGGTGTGG	AAAGTCCCCA	GGCTCCCCAG
3601	CAGGCAGAAG	TATGCAAAGC	ATGCATCTCA	ATTAGTCAGC	AACCAGGTGT
3651	GGAAAGTCCC	CAGGCTCCCC	AGCAGGCAGA	AGTATGCAAA	GCATGCATCT
3701	CAATTAGTCA	GCAACCATAG	TCCCGCCCCT	AACTCCGCCC	ATCCCGCCCC
3751	TAACTCCGCC	CAGTTCCGCC	CATTCTCCGC	CCCATGGCTG	ACTAATTTT
3801	TTTATTTATG	CAGAGGCCGA	GGCCGCCTCG	GCCTCTGAGC	TAT.TCCAGAA
3851	GTAGTGAGGA	GGCTTTTTTG	GAGGCCTAGG	CTTTTGCAAA	AAGCTAATTC

FIG. 6-4

	AGACTCTCAĠGCCTTGGCAĠGTGCGTCTTŤCAGTTCCCCŤCACACTTCGĠGTTCCTCGGĠ	(60)
	GAGGAGGGGCTGGAACCCTÁGCCCATCGTCAGGACAAAGÁTGCTCAGGCTGCTCTTGGCT METLEUARGLEULEUALA	(120)
	CTCAACTTATTCCCTTCAATTCAAGTAACAGGAAACAAGATTTTGGTGAAGCAGTCGCCC LEUASNLEUPHEPROSERILEGLNVALTHRGLYASNLYSILELEUVALLYSGLNSERPRO	(180)
10	ATGCTTGTAGCGTACGACAATGCGGTCAACCTTAGCTGCAAGTATTCCTACAATCTCTTC METLEUVALALATYRASPASNALAVALASNLEUSERCYSLYSTYRSERTYRASNLEUPHE	(240)
30	TCAAGGGAGTTCCGGGCATCCCTTCACAAAGGACTGGATAGTGCTGTGGAAGTCTGTGTT SERARGGLUPHEARGALASERLEUHISLYSGLYLEUASPSERALAVALGLUVALCYSVAL	(300)
50	GTATATGGGÄATTACTCCCÁGCAGCTTCAGGTTTACTCAÁAAACGGGGTTCAACTGTGAT VALTYRGLYASNTYRSERGLNGLNLEUGLNVALTYRSERLYSTHRGLYPHEASNCYSÁSP CHO	(360)
70	GGGAAATTGGGCÄÄTGAATCAGTGACATTCTACCTCCAGAATTTGTATGTTAACCAAACA GLYLYSLEUGLYASNGLUSERVALTHRPHETYRLEUGLNASNLEUTYRVALASNGLNTHR CHO	(420)
90	GATATTTACTTCTGCAAAATTGAAGTTATGTATCCTCCTCCTTACCTAGACAATGAGAAG ASPILETYRPHECYSLYSILEGLUVALMETTYRPROPROPROTYRLEUASPASNGLULYS	(480)
110	AGCAATGGAACCATTATCCATGTGAAAGGGAAACACCTTTGTCCAAGTCCCCTATTTCCC SERASNGLYTHRILEILEHISVALLYSGLYLYSHISLEUCYSPROSERPROLEUPHEPRO CHO	(540)
130	GGACCTTCTAAGCCCTTTTGGGTGCTGGTGGTGGTGGTGGAGTCCTGGCTTGCTATAGC GLYPROSERLYSPROPHETRPVALLEUVALVALVALGLYGLYVALLEUALACYSTYRSER	(600)
150	TTGCTAGTAACAGTGGCCTTTATTATTTTCTGGGTGAGGAGTAAGAGGAGCAGGCTCCTG LEULEUVALTHRVALALAPHEILEILEPHETRPVALARGSERLYSARGSERARGLEULEU	(660)
170	CACAGTGACTACATGAACATGACTCCCCGCCCCCCGGGCCCACCCGCAAGCATTACCAG HISSERASPTYRMETASNMETTHRPROARGARGPROGLYPROTHRARGLYSHISTYRGLN	(720)
190	CCCTATGCCCCACCACGCGACTTCGCAGCCTATCGCTCCTGACACGGACGCCTATCCAGA PROTYRALAPROPROARGASPPHEALAALATYRARGSEREND	(780)
	AGCCAGCCGGCTGGCAGCCCCCATCTGCTCAATATCACTGCTCTGGATAGGAAATGACCG	(840)
	CCATCTCCAĠCCGGCCACCŤCAGCCCCTGŤTGGGCCACCÁATGCCAATTŤTTCTCGAGTĠ	(900)
	ACTAGACCAÁATATCAAGAŤCATTTTGAGÁCTCTGAAATĠAAGTAAAAGÁGATTTCCTGŤ	(960)
	GACAGGCCAÁGTCTTACAGŤGCCATGGCCĊACATTCCAAĊTTACCATGTÁCTTAGTGACŤ	(1020)
	TGACTGAGAÄGTTAGGGTAĠAAAACAAAAÄGGGAGTGGAŤTCTGGGAGCĊTCTTCCCTTŤ	(1080)

FIG. 7-1

CTCACTCACCTGCACATCTCAGTCAAGCAAAGTGTGGTATCCACAGACATTTTAGTTGCA	(1140)
GAAGAAAGGĊTAGGAAATCÀTTCCTTTTGĠTTAAATGGGŤGTTTAATCTŤTTGGTTAGTĠ	(1200)
GGTTAAACGĠGGTAAGTTAĠAGTAGGGGGGGGGGATAGGAÁGACATATTTÁAAAAACCATTÁ	(1260)
AAACACTGTCTCCCACTCATGAAATGAGCCACGTAGTTCCTATTTAATGCTGTTTTCCTT	(1320)
TAGTTTAGAÁATACATAGAĆATTGTCTTTTATGAATTCTĠATCATATTTÁGTCATTTTGÁ	(1380)
CCAAATGAGGGATTTGGTCÁAATGAGGGAŤTCCCTCAAAGCAATATCAGGTAAACCAAGŤ	(1440)
TGCTTTCCTCACTCCCTGTCATGAGACTTCAGTGTTAATGTTCACAATATACTTTCGAAA	(1500)
GAATAAAATÄGTTC (1514)	

FIG. 7-2

TAGACCCAGÁGAGGCTCAGCTGCACTCGCCCGGCTGGGAGAGCTGGGTGTGGGGAACATG MET	(60)
GCCGGGCCTCCGAGGCTCCTGCTGCCCCCTGCTTCTGGCGCTGGCTCGCGGCCTGCCTALAGLyProProArgLeuLeuLeuLeuProLeuLeuLeuLeuALaArgGlyLeuPro	(120)
ĠĠĠĠĊĊĊŢĠĊŢĠĊĊĊAAĠĠŢAAGAĠĊŢŢĊĊĊAĠĠĊŢĊŢĊĊAŢĠĠĊĊAĊĠĠĊŢĊĊĠĠAĠĊ GLYALALEUALAALAGLN /	(180)
TCTCCCTGCCCCATGAGCTCAGAGCCCCCAGTCTGAGCCACAGCACAGCCCCCAGGAAGC	(240)
GGGTGGGGTĠCTGAGCGGCĊTCCAGTGTCŤGAGGACTCAŤTTAAGAGAAĠGAAAAAGGGŤ	(300)
GGACCCGGTĠGGGAGTGGCĊGGGGCTGTCĊAGGCAGGGCĆGCTGCTT.TGĠGAGGAAGAAĠ	(360)
CCCACAGTCŤCGGAACACGÁGGACAGCACČTCCCCCAACÁCCACAGCCGĠTGCCCAGATĆ	(420)
TGCTCCATGCCCCGTAAGGCACCGTGTCTTTGGCGACATGTCAGCCCTGGGCTGTCTCAG	(480)
GGCCCCACCÀTCCCCACCACTGTCCCCTGCAGGGAGGACATTCTCTGTCCTTCTGGCCAG	(540)
ACTGATGGTĠACAGCCCAGĠTCCTCCCAGAGGTĠĊĀĠĊAĠTCTĆĊĊĊĀCTGCACGACTGT GLUVALGLNGLNSERPROHISCYSTHRTHRVA	(600)
CCCCGTGGGÁGCCTCCGTCÁACATCACCTĠCTCCACCAGĊGGGGGCCTGĊGTGGGATCTÁ LPROVALGLYALASERVALASNILETHRCYSSERTHRSERGLYGLYLEUARGGLYILETY	(660)
CHO CCTGAGGCAGCTCGGGCCACAGCCCCAAGACATCATTTACTACGAGGACGGGGTGGTGCC RLEUARGGLNLEUGLYPROGLNPROGLNASPILEILETYRTYRGLUASPGLYVALVALPR	(720)
CACTACGGAĊAGACGGTTCĊGGGGCCGCATCGACTTCTCAGGGTCCCAGGACAACCTGAĊ OTHRTHRASPARGARGPHEARGGLYARGILEASPPHESERGLYSERGLNASPASNLEUTH	(780)
TATCACCATĠCACCGCCTGĊAGCTGTCGGÁCACTGGCACĊTACACCTGCĊAGGCCATCAC RILETHRMETHISARGLEUGLNLEUSERASPTHRGLYTHRTYRTHRCYSGLNALAILETH	(840)
GGAGGTCAATGTCTACGGCTCCGGCACCCTGGTCCTGGTGACAGAGGAACAGTCCCAAGG RGLUVALASNVALTYRGLYSERGLYTHRLEUVALLEUVALTHRGLUGLUGLNSERGLNGL	(900)
ATGGCACAGÁTGCTCGGACĠCCCCACCAAĠGGCCTCTGCĊCTCCCTGCCĊCACCGACAGĠ YTrpHisArgCysSerAspAlaProProArgAlaSerAlaLeuProAlaProProThrGl	(960)
CTCCGCCCTCCCTGACCCGCAGACAGCCTCTGCCCTCCCT	(1020)
CCTCCCTGCGGCCCTGGCGGTGATCTCCTTCCTCCTCGGGCTGGGCCTGGGGGTGGCGTG	(1080)

FIG. 8-1

TGTGCTGGCGAGGACACAGATAAAGAAACTGTGCTCGTGGCGGGATAAGAATTCGGCGGC sValleualaargThrGlnIleLysLysLeuCysSerTrpArgAspLysAsnSeralaal	(1140)
ATGTGTGTGTACGAGGACÁTGTCGCACAGCCGCTGCAACACGCTGTCCTCCCCAACCÁ ACYSVALVALTYRGLUÁSPMETSERHISSERARGCYSASNTHRLEUSERSERPROÁSNGL	(1200)
GTACCAGTGÁCCCAGTGGGCCCCTGCACGTCCCGCCTGTGGTCCCCCCAGCACCTTCCCT NTYRGLNEND	(1260)
GCCCCACCATGCCCCCCACCCTGCCACACCCCTCACCCTGCTGTCCTCCCACGGCTGCAG	(1320)
CAGAGTTTGÁAGGGCCCAGCCGTGCCCAGCTCCAAGCAGACACACAGGCÁGTGGCCAGGC	(1380)
CCCACGGTGCTTCTCAGTGGACAATGATGCCTCCTCCGGGAAGCCTTCCCTGCCCAGCCC	(1440)
ACGCCGCCACCGGGAGGAAGCCTGACTGTCCTTTGGCTGCATCTCCCGACCATGGCCAAG	(1500)
GAGGGCTTTŤCTGTGGGATĠGGCCTGGCAĊGCGGCCCTCŤCCTGTCAGTĠCCGGCCCACĊ	(1560)
CACCAGCAGGCCCCCAACCCCCAGGCAGCCCGGCAGAGGACGGGGAGGA	(1620)
ACCCAGCCGŤACCAGAAATÀAAGGCTTCTĠTGCTTCAAAÁAAAAA (1665)	

FIG. 8-2

	CCCAAATGTČTCAGAATGTÄTGTCCCAGAÁACCTGTGGCŤGCTTCAACCÄTTGACAGTTŤ METSERGLNÁSNVALCYSPROARGÁSNLEUTRPLEULEUGLNPROLEUTHRVALL -29	(60)
	TGCTGCTGCTGCCTCCAGACAGTCAAGCTGCAGCTCCCCCAAAGGCTGTGCTGAAAC EULEULEUALASERALAASPSERGLNALAALAALAPROPROLYSALAVALLEULYSL	(120)
10	TTGAGCCCCCGTGGATCAACGTGCTCCAGGAGGACTCTGTGACTCTGACATGCCAGGGGG EUGLUPROPROTRPILEASNYALLEUGLNGLUASPSERVALTHRLEUTHRCYSGLNGLYA	(180)
30	CTCGCAGCCCTGAGAGCGACTCCATTCAGTGGTTCCACAATGGGAATCTCATTCCCACCCLAARGSERPROGLUSERASPSERILEGLNTRPPHEHISASNGLYASNLEUILEPROTHRH	(240)
50	ACACGCAGCCCAGCTACAGGTTCAAGGCCÀACAACAATGACAGCGGGGAGTACACGTGCC ISTHRGLNPROSERTYRARGPHELYSALAASNASNASNASPSERGLYGLUTYRTHRCYSG CHO *	(300)
70	AGACTGGCCÁGACCAGCCTĆAGCGACCCTĠTGCATCTGACTGTGCTTTCĊGAATGGCTGĠ LNTHRGLYGLNTHRSERLEUSERASPPROVALHISLEUTHRVALLEUSERGLUTRPLEUV	(360)
90	TGCTCCAGACCCCTCACCTGGAGTTCCAGGAGGGAGAAACCATCATGCTGAGGTGCCACAALLEUGLNTHRPROHISLEUGLUPHEGLNGLUGLYGLUTHRILEVETLEUARGCYSHISS	(420)
110	GCTGGAAGGÁCAAGCCTCTGGTCAAGGTCÁCATTCTTCCÁGAATGGAAAÁTCCCÁGAAAŤ ERTRPLYSASPLYSPROLEUVALLYSVALTHRPHEPHEGLNASNGLYLYSSERGLNLYSP	(480)
130	TCTCCCGTTTGGATCCCACCTTCTCCATCCCACAAGCAAACCACAGTCACAGTGGTGATT HESERARGLEUASPPROTHRPHESERILEPROGLNALAASNHISSERHISSERGLYASPT	(540)
150	CHO ACCACTGCACAGGAAACATAGGCTACACGCTGTTCTCATCCAAGCCTGTGACCATCACTG YRHISCYSTHRGLYASNILEGLYTYRTHRLEUPHESERSERLYSPROVALTHRILETHRV	(600)
170	TCCAAGTGCCCAGCATGGGCAGCTCTTCACCAATGGGGATCATTGTGGCTGTGGTCATTG ALGLNVALPROSERWETGLYSERSERPROMETGLYILEILEVALALAVALVALILEA	(660)
190	CGACTGCTGTAGCAGCCATTGTTGCTGCTGTAGTGGCCTTGATCTACTGCAGGAAAAAGC LATHRALAVALALAILEVALALAALAVALVALALALEUILETYRCYSARGLYSLYSA	(720)
210	GGATTTCAGCCAATTCCACTGATCCTGTGAAGGCTGCCCAATTTGAGCCACCTGGACGTC RGILESERALAASNSERTHRASPPROVALLYSALAALAGLNPHEGLUPROPROGLYARGG	(780)
230	AAATGATTGĊCATCAGAÁAĠAGACAACTTĠAAGAAACCAÁCAATGACTÁŤGAAACAGCTĠ LNWETILEALAILEARGLYSARGGLNLEUGLUGLUTHRASNASNASPTYRGLUTHRALAA	(840)
250	ACGGCGGCTÁCATGACTCTĠAACCCCAGGĠCACCTACTGÁCGATGATAAÁAACATCTACĊ SPGLYGLYTYRWETTHRLEUASNPROARGALAPROTHRASPASPASPLYSASNILETYRL	(900)

FIG. 9-1

TGACTCTTCCTCCCAACGACCATGTCAACÁGTAATAACTAAAGAGTAACGTTATGCCATG EUTHRLEUPROPROASNASPHISVALASNSERASNASNEND (960)270 TGGTCATACTCTCAGCTTGCTGAGTGGATGACAAAAAGAGGGGGAATTGTTAAAGGAAAAT (1020)TTAAATGGAĞACTGGAAAAÁTCCTGAGCAÁACAAAACCAČCTGGCCCTTÁGAAATAGCTŤ (1080)TAACTTTGCŤTAAACTACAÁACACAAGCAÁAACTTCACGĠGGTCATACTÁCATACAAGCÁ (1140)TAAGCAAAACTTAACTTGGÁTCATTTCTGGTAAATGCTTÁTGTTAGAAAŤAAGACAACCĆ (1200)CAGCCAATCÁCAAGCAGCCŤACTAÁCATAŤAATTAGGTGÁCTAGGGACTŤTCTAAGAAGÁ (1260)TACCTACCCCCAAAAAACAÁTTATGTAATTGAAAACCAACCGATTGCCTTTATTTTGCTT (1320)CCACATTTTCCCAATAAATÁCTTGCCTGTGACATTTTGCCACTGGAACACTAAACTTCAŤ (1380)(1440)TTACCCAGGCTGGAGTGCAGTGGTGCTATCTTGGCTCACTGCAAACCCGCCTCCCAGGTT (1500)TAAGCGATTCTCATGCCTCAGCCTCCCAGTAGCTGGGATTAGAGGCATGTGCCATCATAC (1560)CCAGCTAATTTTTGTATTTTTTTTTTTTTTTTTAGTAGAGACAGGGTTTCGCAATGTT (1620)GGCCAGGCCGATCTCGAACTTCTGGCCTCTAGCGATCTGCCCGCCTCGGCCTCCCAAAGT (1680)GCTGGGATGÁCCAGCATCAĞCCCCAATGTĆCAGCCTCTTŤAACATCTTCŤTTCCTATGCČ (1740)CTCTCTGTGGATCCCTACTGCTGGTTTCTGCCTTCTCCATGCTGAGAACAAAATCACCTA (1800)TTCACTGCTTATGCAGTCGGAAGCTCCAGAAGAACAAAGAGCCCAATTACCAGAACCACA (1860)TTAAGTCTCCATTGTTTTGCCTTGGGATTTGAGAAGAGAATTAGAGAGGTGAGGATCTGG (1920)TATTTCCTGGACTAAATTCCCCTTGGGGAAGACGAAGGGATGCTGCAGTTCCAAAAGAGA (1980)AGGACTCTTCCAGAGTCATCTACCTGAGTCCCAAAGCTCCETGTCCTGAAAGCCACAGAC (2040)AATATGGTCCCAAATGACTGACTGCACCTTCTGTGCCTCAGCCGTTCTTGACATCAAGAA (2100)TCTTCTGTTĊCACATCCACACAGCCAATAĆAATTAGTCAAACCACTGTTATTAACAGATĠ (2160)TAGCAACATGAGAAACGCTŤATGTTACAGGTTACATGAGAGCAATCATGŤAAGTCTATAŤ (2220)GACTTCAGAÁATGTTAAAAŤAGACTAACCŤCTAACAACAÁATTAAAAGTĠATTGTTTCAÁ (2280)GGTGAAAAA (2290)

FIG. 9-2

The first that the first that the first the first that the first t

- AAAGACAAACTGCACCCACTGAACTCCGCAGCTAGCATCCAAATCAGCCTTGAGATTTGAGGCCTTGGAGACTCAGGAGTTTTGAGAGC
- Met.ThrThrProArgAsnSerValAsnGlyThrPheProAlaGluProMetLysGlyProIleAlaMetGlnSerGlyProLysPro 91 AAAATGACAACACCCAGAAATTCAGTAAATGGGACTTTCCCGGCAGAGCCCAATGAAAGGCCCTATTGCTATGCAATCTGGTCCAAAACCA

---CHO---

- LeuPheArgArgMetSerSerLeuValGlyProThrGlnSerPhePheMetArgGluSerLysThrLeuGlyAlaValGinIleMetAsn CTCTTCAGGAGGATGTCTTCACTGGTGGGCCCCACGCAAAGCTTCTTCATGAGGGAATCTAAGACTTTGGGGGCTGTCCAGATTATGAAT
- GGGCTCTTCCACATTGCCCTGGGGGGTCTTCTGATGATCCCAGCAGGGATCTATGCACCCATCTGTGTGACTGTGTGGTACCCTCTCTGG GlyLeuPheHisIleAlaLeuGlyGlyLeuLeuMetIleProAlaGlyIleTyrAlaProIleCysValThrValTrpTyrProLeuTrp
- GGAGGCATTATGTATATTTCCGGATCACTCCTGGCAGCAACGGAGAAAACTCCAGGAAGTGTTTGGTCAAAGGAAAAATGATAATG GlyGlyIleMetTyrIleIleSerGlySerLeuLeuAlaAlaThrGluLysAsnSerArgLysCysLeuValLysGlyLysMetIleMet 361
- AATTCATTGAGCCTCTTTGCTGCCATTTCTGGAATGATTCTTTCAATCATGGACATACTTAATATTAAAAATTTCCCATTTTTAAAAATG AsnSerLeuSerLeuPheAlaAlaIleSerGlyMetIleLeuSerIleMetAspIleLeuAsnIleLysIleSerHisPheLeuLysMet
- GluSerLeuAsnPheIleArgAlaHisThrProTyrIleAsnIleTyrAsnCysGluProAlaAsnProSerGluLysAsnSerProSer GAGAGTCTGAATTTTATTAGAGCTCACACACCATATTAACATATACAACTGTGAACCAGCTAATCCCTCTGAGAAAAACTCCCATCT

ThrGlnTyrCysTyrSerIleGlnSerLeuPheLeuGlyIleLeuSerValMetLeuIlePheAlaPhePheGlnGluLeuValIleAla 631 ACCCAATACTGTTACAGCATACAATCTCTTGTTCTTGGGCATTTTGTCAGTGATGCTGATCTTTGCCTTCTTCCAGGAACTTGTAATAGCT

FIG. 10A-1

The light state of the light sta

GlyIleValGluAsnGluTrpLysArgThrCysSerArgProLysSerAsnIleValLeuLeuLeuSerAlaGluGluLysLysGluGlnThr

IleGluIleLysGluGluValValGlyLeuThrGluThrSerSerGlnProLysAsnGluGluAspIleGluIleIleProIleGlnGlu 240

GluGluGluGluGluThrGluThrAsnPheProGluProProGlnAspGlnGluSerSerProIleGluAsnAspSerSerProEnd 297 GAGGAAGAAGAAGAAACAGAGAGGAACTTTCCAGAACCTCCCCAAGATCAGGAATCCTCACCAATAGAAAATGACAGCTCTCCTTAAGTG

ATTICTICI GITITCI GITICCITITITA À ACATTAGIGITCA TAGCITIC CA A GAGACA I GCI GACTITICATITCITICA GGI ACTICIGCÀ 991

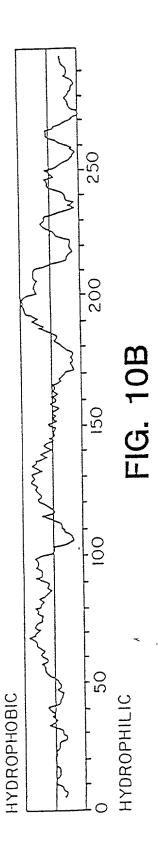
CATACGCACCACATCTCTATÇTGGCCTTTGCATGGAGTGACCATAGCTCCTTCTCTTTACATTGAATGTAGAATGTAGCCATTGTAG 1081

1171 CAGCTTGTGTTGTCACGCTTCTTCTTTTGAGCAACTTTCTTACACTGAAGAAAGGCAGAATGAGTGCTTCAGAATGTGATTTCCTACTAA

1261

1441 ATGATGCAAAAGGGCTTTAGAGCACAATGGATCT 1474

FIG. 10A-2



CTCAGCCTCGCTATGGCTCCCAGCAGCCCCGGCCCGGCTGCCCGCACTCCTGGTCCTGGTCGGGGGTCTGTTCCCA MetAlaproSerSerProArgProAlaLeuProAlaLeuLeuValLeuLeuGlyAlaLeuPhePro

GGACCTGGCAAÌGCĆCAGACATCTGTGTCCCCCTCAAAAGTC GlyProGlyAsnAlaGlnThrSerValSerProSerLysVal

ATCCTGCCCCGGGGAGGCTCCGTGCTGACATGCAGCACCTGTGACCAGCCCAAGTTGTTGGGCATAGAGACC IleLeuProArgGlyGlySerValLeuValThrCysSerThrSerCysAspGlnProLysLeuLeuGlyIleGluThr 121

ProLeuProLysLysGluLeuLeuLeuProGlyAsnAsnArg CCGTTGCCTAAAAAGGAGTTGCTCCTGCCTGGGAACAACCGG (+61)

AAGGTGTATGAACTGAGCAATGTGCAAGAAGATAGCCAAGCAATGTGCTATTCAAACTGCCCTGATGGGCAGTCAACA LysValTyrGluLeuSerAsnValGlnGluAspSerGlnProMetCysTyrSerAsnCysProAspGlyGlnSerThr 241

GCTAAAACCTTCCTCACCGTGTACTGGACTCCAGAACGGGTG AlaLysThrPheLeuThrValTyrTrpThrProGluArgVal GAACTGGCACCCCTCCCCTTTGGCAGCCAGTGGGCAAGAACCTTACCCTACGCTGCCAGGTGGAGGGTGGGGCACCC GluLeuAlaProLeuProSerTrpGlnProValGlyLysAsnLeuThrLeuArgCysGlnValGluGlyGlyAlaPro 361

CGGGCCAACCTCACCGTGGTGCTGCTCCGTGGGGAGAAGGAG ArgAlaAsnLeuThrValValLeuLeuArgGlyGluLysGlu .----(+131)

LeulysArgGluProAlaValGlyGluProAlaGluValThrThrThrValLeuValArgArgAspHisHisGlyAla CTGAAACGGGAGCCAGCTGTGGGGGAGCCCGCTGAGGTCACGACCACGGTGCTGGTGAGGAGAGATCACCATGGAGCC 481

AATTTCTCGTGCCGCACTGAACTGGACCTGCGGCCCCAAGGG AsnPheSerCysArgThrGluLeuAspLeuArgProGlnGly

CTGGAGCTGTTTGAGAACACCTCGGCCCCCTACCAGCTCCAGACCTTTGTCCTGCCAGCGACTCCCCCACAACTTGTC (+171)---CH0---601

LeuGluLeuPhogluAsnThrSerAlaProTyrGlnLeuGlnThrPheValLeuProAlaThrProProGlnLeuVal **AGCCCCGGGGTCCTAGAGGTGGACACGCAGGGGACCGTGGTC** SerProArgValLeuGluValAspThrGlnGlyThrValVal

FIG. 11-1

(+211)

TGTTCCCTGGACGGGCTGTTCCCAGTCTCGGAGGCCCAGGTCCACCTGGCACTGGGGGACCAGAGGTTGAACCCCACA CysSerLeuAspGlyLeuPheProValSerGluAlaGlnValHisLeuAlaLeuGlyAspGlnArgLeuAsnProThr GTCACCTATGGCAACGACTCCTTCTCGGCCAAGGCCTCAGTC (+251)ValThrTyrGlyAsnAspSerPheSerAlaLysAlaSerVal ---CH0---721

<u> AGTGTGACCGCAGAGGACGAGGCCACCCAGCGGCTGACGTGTGCAGTAATACTGGGGAACCAGAGCCAGGAGACACTG</u> SerValThrAlaGluAspGluGlyThrGlnArgLeuThrCysAlaValIleLeuGlyAsnGlnSerGlnGluThrLeu 841

CAGACAGTGACCATCTACAGCTTTCCGGCGCCCAACGTGATT

GInThrValThrIleTyrSerPheProAlaProAsnValIle (+291) CTGACGAAGCCAGAGGGTCTCAGAAGGGACCGAGGTGACÁGTGAAGTGTGAGGCCCACCCTAGAGCCAAGGTGACGCTG LeuThrLysProGluValSerGluGlyThrGluValThrValLysCysGluAlaHisProArgAlaLysValThrLeu 961

AATGGGGTTCCAGCCAGCCACTGGGCCCGAGGGCCCAGCTC AsnGlyValProAlaGinProLeuGiyProArgAlaGinLeu (+331)

LeuLeuLysAlaThrProGluAspAsnGlyArgSerPheSerCysSerAlaThrLeuGluValAlaGlyGlnLeuIle 1081

CACAAGAACCAGACCCGGGAGCTTCGTGTCCTGTATGGCCCC HisLysAsnGinThrArgGluLeuArgValLeuTyrGlyPro (+371)

1201 CGACTGGACGAGAGGGATTGTCCGGGAAACTGGACGTGGCCÁGAAATTCCCAGCAGACTCCAATGTGCCAGGCTTGG <u>ArgLeuAspGluArgAspCysProGlyAsnTrpThrTrpProGluAsnSerGlnGlnThrProMetCysGlnAlaTrp</u>

GlyAsnProLeuProGluLeuLysCysLeuLysAspGlyThr GGGAACCCATTGCCCGAGCTCAAGTGTCTAAAGGATGGCACT (+411)

PheProLeuProIleGlyGluSerValThrValThrArgAspLeuGluGlyThrTyrLeuCysArgAlaArgSerThr

CAAGGGGAGGTCACCCGCGAGGTGACCGTGAATGTGCTCTCC GingiygiuVaiThrArgGiuVaiThrVaiAsnVaiLeuSer

1441 CCCCGGTATGAGATTGTCATCATCACTGTGGTAGCAGCCGCAGTCATAATGGGCACTGCAGGCCTCAGCACGTACCTC ProArgTyrGluIleValIleIleThrValValAlaAlaAlaValIleMetGlyThrAlaGlyLeuSerThrTyrLeu

TATAACCGCCAGCGGAAGATCAAGAAATACAGACTACAAÇAG TyrAsnArgGlnArgLysIleLysLysTyrArgLeuGlnGln (+491)

1561 GCCCAAAAAGGGACCCCCATGAAACCGAACACACAAGCCACGCCTCCCTGAACCTATCCCGGGACAGGGCCTCTTCCT AlaginLysGlyThrProMetLysProAsnThrGlnAlaThrProPro (+507)

CGGCCTTCCCATATTGGTGGCAGTGCCACACTGAACAGA

GGCCACGCATCTGATCTGTCACATGACTAAGCCAAGAGGAAGG AACAGCATTTGGGGCCATGGTACCTGCACACCTAAAACACTA 1801

FIG. 11-3

.. GGAGAGTC TGACCACCAT GCCACCTCCT CGCCTCCTCT TCTTCCTCCT CTTCCTCACC CCCATGGAAG TCAGGCCCGA GGAACCTCTA GTGGTGAAGG TGGAAGAGG AGATAACGCT GTGCTGCAGT GCCTCAAGGG GACCTCAGAT 101 GGCCCCACTC AGCAGCTGAC CTGGTCTCGG GAGTCCCCGC TTAAACCCTT CTTAAAACTC AGCCTGGGGC TGCCAGGCCT GGGAATCCAC ATGAGGCCCC 201 TGGCCATCTG GCTTTTCATC TTCAACGTCT CTCAACAGAT GGGGGGCTTC 251 TACCTGTGCC AGCCGGGCC CCCCTCTGAG AAGGCCTGGC AGCCTGGCTG 301 GACAGTCAAT GTGGAGGGCA GCGGGGAGCT GTTCCGGTGG AATGTTTCGG 351 ACCTAGGTGG CCTGGGCTGT GGCCTGAAGA ACAGGTCCTC AGAGGGCCCC 401 AGCTCCCCTT CCGGGAAGCT CATGAGCCCC AAGCTGTATG TGTGGGCCAA 451 AGACCGCCCT GAGATCTGGG AGGGAGAGCC TCCGTGTGTC CCACCGAGGG 501 ACAGCCTGAA CCAGAGCCTC AGCCAGGACC TCACCATGGC CCCTGGCTCC ACACTCTGGC TGTCCTGTGG GGTACCCCCT GACTCTGTGT CCAGGGGCCC 601 CCTCTCCTGG ACCCATGTGC ACCCCAAGGG GCCTAAGTCA TTGCTGAGCC 651 TAGAGCTGAA GGACGATCGC CCGGCCAGAG ATATGTGGGT AATGGAGACG GGTCTGTTGT TGCCCCGGGC CACAGCTCAA GACGCTGGAA AGTATTATTG 751 TCACCGTGGC AACCTGACCA TGTCATTCCA CCTGGAGATC ACTGCTCGGC 801 CAGTACTATG GCACTGGCTG CTGAGGACTG GTGGCTGGAA GGTCTCAGCT 851 GTGACTTTGG CTTATCTGAT CTTCTGCCTG TGTTCCCTTG TGGGCATTCT 901 TCATCTTCAA AGAGCCCTGG TCCTGAGGAG GAAAAGAAAG CGAATGACTG 951 ACCCCACCAG GAGATTCTTC AAAGTGACGC CTCCCCCAGG AAGCGGGCCC 1001 CAGAACCAGT ACGGGAACGT GCTGTCTCTC CCCACACCCA CCTCAGGCCT 1051 CGGACGCGCC CAGCGTTGGG CCGCAGGCCT GGGGGGCACT GCCCCGTCTT 1151 ATGGAAACCC GAGCAGCGAC GTCCAGGCGG ATGGAGCCTT GGGGTCCCGG

FIG. 12-1

AGCCGCCGGG AGTGGGCCCA GAAGAAGAGG AAGGGGAGGG CTATGAGGAA CCTGACAGTG AGGAGGACTC CGAGTTCTAT GAGAACGACT CCAACCTTGG GCAGGACCAG CTCTCCCAGG ATGGCAGCGG CTACGAGAAC CCTGAGGATG 1301 1351 AGCCCCTGGG TCCTGAGGAT GAAGACTCCT TCTCCAACGC TGAGTCTTAT GAGAACGAGG ATGAAGAGCT GACCCAGCCG GTCGCCAGGA CAATGGACTT 1401 CCTGAGCCCT CATGGGTCAG CCTGGGACCC CAGCCGGGAA GCAACCTCCC 1451 TGGGGTCCCA GTCCTATGAG GATATGAGAG GAATCCTGTA TGCAGCCCCC 1501 CAGCTCCGCT_CCATTCGGGG CCAGCCTGGA CCCAATCATG AGGAAGATGC 1551 AGACTCTTAT GAGAACATGG ATAATCCCGA TGGGCCAGAC CCAGCCTGGG 1601 GAGGAGGGG CCGCATGGGC ACCTGGAGCA CCAGGTGATC CTCAGGTGGC 1651 CAGCCTGGAT CTCCTCAAGT CCCCAAGATT CACACCTGAC TCTGAAATCT 1701 1751 GAAGACCTCG AGCAGATGAT GCCAACCTCT GGAGCAATGT TGCTTAGGAT 1801 GTGTGCATGT GTGTAAGTGT GTGTGTGTGT GTGTGTGTGT ATACATGCCA GTGACACTTC CAGTCCCCTT TGTATTCCTT AAATAAACTC 1901 AATGAGCTCT TCCAAAAAAA AAAA

FIG. 12-2

1 ACAAAGACAA ACTGCACCCA CTGAACTCCG CAGCTAGCAT CCAAATCAGC 51 CCTTGAGATT TGAGGCCTTG GAGACTCAGG AGTTTTGAGA GCAAAATGAC 101 AACACCCAGA AATTCAGTAA ATGGGACTTT CCCGGCAGAG CCAATGAAAG 151 GCCCTATTGC TATGCAATCT GGTCCAAAAC CACTCTTCAG GAGGATGTCT TCACTGGTGG GCCCCACGCA AAGCTTCTTC ATGAGGGAAT CTAAGACTTT GGGGGCTGTC CAGATTATGA ATGGGCTCTT CCACATTGCC CTGGGGGGTC TTCTGATGAT CCCAGCAGGG ATCTATGCAC CCATCTGTGT GACTGTGTGG 301 TACCCTCTCT GGGGAGGCAT TATGTATATT ATTTCCGGAT CACTCCTGGC 351 AGCAACGGAG AAAAACTCCA GGAAGTGTTT GGTCAAAGGA AAAATGATAA 451 TGAATTCATT GAGCCTCTTT GCTGCCATTT CTGGAATGAT TCTTTCAATC ATGGACATAÇ TTAATATTAA AATTTCCCAT TTTTTAAAAA TGGAGAGTCT GAATTITATT AGAGCTCACA CACCATATAT TAACATATAC AACTGTGAAC-551 CAGCTAATCC CTCTGAGAAA AACTCCCCAT CTACCCAATA CTGTTACAGC ATACAATCTC TGTTCTTGGG CATTTTGTCA GTGATGCTGA TCTTTGCCTT 651 CTTCCAGGAA CTTGTAATAG CTGGCATCGT TGAGAATGAA TGGAAAAGAA 701 CGTGCTCCAG ACCCAAATCT AACATAGTTC TCCTGTCAGC ACAAGAAAAA 751 801 AAAGAACAGA CTATTGAAAT AAAAGAAGAA GTGGTTGGGC TAACTGAAAC 851 ATCTTCCCAA CCAAAGAATG AAGAAGACAT TGAAATTATT CCAATCCAAG AAGAGGAAGA AGAAGAAACA GAGACGAACT TTCCAGAACC TCCCCAAGAT CAGGAATCCT CACCAATAGA AAATGACAGC TCTCCTTAAG TGATTTCTTC TGTTTTCTGT TTCCTTTTTT AAACATTAGT GTTCATAGCT TCCAAGAGAC 1051 ATGCTGACTT TCATTTCTTG AGGTACTCTG CACATACGCA CCACATCTCT

FIG. 13-1

1101	ATCTGGCCTT TGCATGGAGT GACCATAGCT CCTTCTCTCT TACATTGAAT
1151	GTAGAGAATG TAGCCATTGT AGCAGCTTGT GTTGTCACGC TTCTTCTTTT
1201	GAGCAACTTT CTTACACTGA AGAAAGGCAG AATGAGTGCT TCAGAATGTG
1251	ATTTCCTACT AACCTGTTCC TTGGATAGGC TTTTTAGTAT AGTATTTTTT
1301	TTTGTCATTT TCTCCATCAG CAACCAGGGA GACTGCACCT GATGGAAAAG
1351	ATATATGACT GCTTCATGAC ATTCCTAAAC TATCTTTTT TTATTCCACA
1401	TCTACGTTTT TGGTGGAGTC CCTTTTTATC ATCCTTAAAA CAATGATGCA
1451	AAAGGGCTTT AGAGCACAAT GGATCT

FIG. 13-2

1 CCCAAATGTC TCAGAATGTA TGTCCCAGAA ACCTGTGGCT GCTTCAACCA 51 TTGACAGTTT TGCTGCTGCT GGCTTCTGCA GACAGTCAAG CTGCAGCTCC 101 CCCAAAGGCT GTGCTGAAAC TTGAGCCCCC GTGGATCAAC GTGCTCCAGG 151 AGGACTCTGT GACTCTGACA TGCCAGGGGG CTCGCAGCCC TGAGAGCGAC 201 TCCATTCAGT GGTTCCACAA TGGGAATCTC ATTCCCACCC ACACGCAGCC 251 CAGCTACAGG TTCAAGGCCA ACAACAATGA CAGCGGGGAG TACACGTGCC 301 AGACTGGCCA GACCAGCCTC AGCGACCCTG TGCATCTGAC TGTGCTTTCC 351 GAATGGCTGG TGCTCCAGAC CCCTCACCTG GAGTTCCAGG AGGGAGAAAC 401 CATCATGCTG AGGTGCCACA GCTGGAAGGA CAAGCCTCTG GTCAAGGTCA 451 CATTCTTCCA GAATGGAAAA TCCCAGAAAT TCTCCCGTTT GGATCCCACC 501 TTCTCCATCC CACAAGCAAA CCACAGTCAC AGTGGTGATT ACCACTGCAC 551 AGGAAACATA GGCTACACGC TGTTCTCATC CAAGCCTGTG ACCATCACTG 601 TCCAAGTGCC CAGCATGGGC AGCTCTTCAC CAATGGGGAT CATTGTGGCT 651 GTGGTCATTG CGACTGCTGT AGCAGCCATT GTTGCTGCTG TAGTGGCCTT 701 GATCTACTGC AGGAAAAAGC GGATTTCAGC CAATTCCACT GATCCTGTGA 751 AGGCTGCCCA ATTTGAGCCA CCTGGACGTC AAATGATTGC CATCAGAAAG 801 AGACAACTTG AAGAAACCAA CAATGACTAT GAAACAGCTG ACGGCGGCTA 851 CATGACTCTG AACCCCAGGG CACCTACTGA CGATGATAAA AACATCTACC 901 TGACTCTTCC TCCCAACGAC CATGTCAACA GTAATAACTA AAGAGTAACG 951 TTATGCCATG TGGTCATACT CTCAGCTTGC TGAGTGGATG ACAAAAAGAG 1001 GGGAATTGTT AAAGGAAAAT TTAAATGGAG ACTGGAAAAA TCCTGAGCAA 1051 ACAAAACCAC CTGGCCCTTA GAAATAGCTT TAACTTTGCT TAAACTACAA 1101 ACACAAGCAA AACTTCACGG GGTCATACTA CATACAAGCA TAAGCAAAAC 1151 TTAACTTGGA TCATTTCTGG TAAATGCTTA TGTTAGAAAT AAGACAACCC 1201 CAGCCAATCA CAAGCAGCCT ACTAACATAT AATTAGGTGA CTAGGGACTT TCTAAGAAGA TACCTACCCC CAAAAAACAA TTATGTAATT GAAAACCAAC 1251 1301 CGATTGCCTT TATTTTGCTT CCACATTTTC CCAATAAATA CTTGCCTGTG 1351 ACATTITGCC ACTGGAACAC TAAACTTCAT GAATTGCGCC TCAGATTTTT 1401 CCTTTAACAT CTTTTTTT TTTGACAGAG TCTCAATCTG TTACCCAGGC TGGAGTGCAG TGGTGCTATC TTGGCTCACT GCAAACCCGC CTCCCAGGTT 1451 TAAGCGATTC TCATGCCTCA GCCTCCCAGT AGCTGGGATT AGAGGCATGT 1501 1551 GCCATCATAC CCAGCTAATT TTTGTATTTT TTATTTTTT TTTTTAGTAG 1601 AGACAGGGTT TCGCAATGTT GGCCAGGCCG ATCTCGAACT TCTGGCCTCT AGCGATCTGC CCGCCTCGGC CTCCCAAAGT GCTGGGATGA CCAGCATCAG

FIG. 15-1

```
CCCCAATGTC CAGCCTCTTT AACATCTTCT TTCCTATGCC CTCTCTGTGG
1701
     ATCCCTACTG CTGGTTTCTG CCTTCTCCAT GCTGAGAACA AAATCACCTA
     TTCACTGCTT ATGCAGTCGG AAGCTCCAGA AGAACAAAGA GCCCAATTAC
1801
     1851
     TTAGAGAGGT GAGGATCTGG TATTTCCTGG ACTAAATTCC CCTTGGGGAA
1901
     GACGAAGGGA TGCTGCAGTT CCAAAAGAGA AGGACTCTTC CAGAGTCATC
1951
     TACCTGAGTC CCAAAGCTCC CTGTCCTGAA AGCCACAGAC AATATGGTCC
2001
     CAAATGACTG ACTGCACCTT CTGTGCCTCA GCCGTTCTTG ACATCAAGAA
2051
     TCTTCTGTTC CACATCCACA CAGCCAATAC AATTAGTCAA ACCACTGTTA
2101
     TTAACAGATG TAGCAACATG AGAAACGCTT ATGTTACAGG TTACATGAGA
2151
     GCAATCATGT AAGTCTATAT GACTTCAGAA ATGTTAAAAT AGACTAACCT
2201
     CTAACAACAA ATTAAAAGTG ATTGTTTCAA GGTGAAAAAA
2251
```

FIG. 15-2

GCTGTGACTG CTGTGCTCTG GGCGCCACTC GCTCCAGGGA GTGATGGGAA TCCTGTCATT CTTACCTGTC CTTGCCACTG AGAGTGACTG GGCTGACTGC AAGTCCCCCC AGCCTTGGGG TCATATGCTT CTGTGGACAG CTGTGCTATC 101 CCTGGCTCCT GTTGCTGGGA CACCTGCAGC TCCCCCAAAG GCTGTGCTGA 151 AACTCGAGCC CCAGTGGATC AACGTGCTCC AGGAGGACTC TGTGACTCTG 201 ACATGCCGGG GGACTCACAG CCCTGAGAGC GACTCCATTC AGTGGTTCCA 251 CAATGGGAAT CTCATTCCCA CCCACACGCA GCCCAGCTAC AGGTTCAAGG 301 CCAACAACAA TGACAGCGGG GAGTACACGT GCCAGACTGG CCAGACCAGC 351 CTCAGCGACC CTGTGCATCT GACTGTGCTT TCTGGTCAGT GGAGGAAGGC 401 CCCAGGGTGG ACCTGGGAGG GCCAGGACGG ATGAAATCTG CTTTCAGGCA 451 GAGGTTTGCA GGAAAGGGGG GTGGCCTGCT TACTGGGAAG TATCGCTGTG 501 551 AGTTGCCTCA GCACATATCA GTGGTTGTTT TTGCCTCAGT TCTGATTGAA CAGAAGAAGG TTTCAAGGCC AAAAACAGGC AGCCAAGTGT GAGAGAAGCA 601 GAAGGAAATC CCTACTGCAT AAAACCCATT TCCATTTTAA TGGCAGAATT 651 701 GAAAAGCACA GACCACAACT GAATCCTAGC CCTGGAAATG ACTCACTATA 751 CAACATGATG AATTCATTTA ACCCTTGAGT TTCCATTTCT TCACCTGCTC 801 CGTGGGGCAG TAACGCCTCC CTCAGAGGCT TCTGGTGAGA ATCAGTGTTT CCCTGCCCC GCCCGCCCT CCATGCCCCT TCTCCACGTT CTCACTGTGC 851 TAGGTGCTCT TCTCTGTCTT TCTCTTCCAC CAGCCTGTGG GAAACCTGAG 901 951 ATGAAAGTCG TGTCTTACCC ATCTTTGTAT TTCCAGCATC TGAAACTGGG CAGAGCTTAA TAAATATTTT GCTGGAGAGG TTGATGATCT TACAAAGCTC 1001 1051 CCATTGAAAG GTGGCTCTCT GTAAAGCAAA GTTACAATGA GATTGTGATG 1101 AACATTGTCC TTGTGGCTTT TCACTTAGTC CCCTCCCTTC ACCTGAAGAG 1151 CAAATTTTCC TCAAAAGTAC ACAGCAAACG AATGACCCAC TGGTGACACT 1201 GTTGCCTTTA GACCCTGCTG GAAAGAAGCT CCACATTTAT TAACATTCCC 1251 GAAGTAAATT TATCAGGTAG CATTCATCAG GTAACATTTG TTGCACATTC ATGACTTITC TACTGTCCAC AAAGGCATAT GTCCTTATCA TATGCGGACT 1301 1351 CCTCGGTCAC ACTGGATTCT TCCTTCCCTC CTCGACATGG AAGAGATGGC ATCTTAGGGT CTCTTGTGTT CTTCCTGCAG AGGCCTGTCG GGCAGGAAAA 1401 1451 GGCTGCAGCT GCCTTCCTGG GAGAAGGAGG AGATGAGTGT ATCCTGAACA 1501 CCTATTATGT GCTAGGGGCT ATTGTAGATA CATGACACTA TCATGCTCAT TTTCACGAAT GAGGAAACTG AGGCTCAGAA GACTTAAATT ATTTGCCCAA 1551 1601 GAGTTATAAA TGACAGAGCC AGCATTAGAG TCCAGGACTG TCTGATTTCA 1651 GACCTAAGCT GTTCCCTCTG CACATCGTGT CCCACCAGTA AGGAAGATCT

FIG. 16-1

```
1701 GGGTCTCAGA GCTGAGCCAA GACCTCCCGG GTCCTCTGCG GTTTTTTGTG
1751 TCTTTCAGAG TGGCTGGTGC TCCAGACCCC TCACCTGGAG TTCCAGGAGG
1801 GAGAAACCAT CGTGCTGAGG TGCCACAGCT GGAAGGACAA GCCTCTGGTC
1851 AAGGTCACAT TCTTCCAGAA TGGAAAATCC AAGAAATTTT CCCGTTCGGA
1901 TCCCAACTTC TCCATCCCAC AAGCAAACCA CAGTCACAGT GGTGATTACC
1951 ACTGCACAGG AAACATAGGC TACACGCTGT ACTCATCCAA GCCTGTGACC
2001 ATCACTGTCC AAGCTCCCAG CTCTTCACCG ATGGGGATCA TTGTGGCTGT
2051 GGTCACTGGG ATTGCTGTAG CGGCCATTGT TGCTGCTGTA GTGGCCTTGA
2101 TCTACTGCAG GAAAAAGCGG ATTTCAGGTT TGTAGCTCCT CCCGGTCCCT
2151 TTTGTTATCA GTTTCCACTT T
```

FIG. 16-2

```
1 GCCTCGCTCG GGCGCCCAGT GGTCCTGCCG CCTGGTCTCA CCTCGCCATG
 51 GTTCGTCTGC CTCTGCAGTG CGTCCTCTGG GGCTGCTTGC TGACCGCTGT
101 CCATCCAGAA CCACCCACTG CATGCAGAGA AAAACAGTAC CTAATAAACA
151 GTCAGTGCTG TTCTTFGTGC CAGCCAGGAC AGAAACTGGT GAGTGACTGC
     ACAGAGTTCA CTGAAACGGA ATGCCTTCCT TGCGGTGAAA GCGAATTCCT
201
     AGACACCTGG AACAGAGAGA CACACTGCCA CCAGCACAAA TACTGCGACC
251
     CCAACCTAGG GCTTCGGGTC CAGCAGAAGG GCACCTCAGA AACAGACACC
301
     ATCTGCACCT GTGAAGAGG CTGGCACTGT ACGAGTGAGG CCTGTGAGAG
351
     CTGTGTCCTG CACCGCTCAT GCTCGCCCGG CTTTGGGGTC AAGCAGATTG
401
     CTACAGGGGT TTCTGATACC ATCTGCGAGC CCTGCCCAGT CGGCTTCTTC
451
     TCCAATGTGT CATCTGCTTT CGAAAAATGT CACCCTTGGA CAAGCTGTGA
551 GACCAAAGAC CTGGTTGTGC AACAGGCAGGC ACAAACAAGA CTGATGTTGT
     CTGTGGTCCC CAGGATCGGC TGAGAGCCCT GGTGGTGATC CCCATCATCT
601
651 TCGGGATCCT GTTTGCCATC CTCTTGGTGC TGGTCTTTAT CAAAAAGGTG
701 GCCAAGAAGC CAACCAATAA GGCCCCCCAC CCCAAGCAGG AACCCCAGGA
    GATCAATTTT CCCGACGATC TTCCTGGCTC CAACACTGCT GCTCCAGTGC
751
801 AGGAGACTTT ACATGGATGC CAACCGGTCA CCCAGGAGGA TGGCAAAGAG
851 AGTCGCATCT CAGTGCAGGA GAGACAGTGA GGCTGCACCC ACCCAGGAGT
901 GTGGCCACGT GGGCAAACAG GCAGTTGGCC AGAGAGCCTG GTGCTGCTGC
951 TGCAGGGGTG CAGGCAGAAG CGGGGAGCTA TGCCCAGTCA GTGCCAGCCC
    CTC
```

FIG. 17